

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **Hybrid Fiber Twisted Pair Local Loop Network Service Architecture** the specification of which was filed on December 31, 1997, as application Serial No. 09/001360.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I. Gerszberg 41-37-3-35-13

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Samuel H. Dworetsky	(Reg. No. 27873)
Thomas A. Restaino	(Reg. No. 33444)
Robert B. Levy	(Reg. No. 28234)
Michelle Conover	(Reg. No. 34962)
Jose R. de la Rosa	(Reg. No. 34810)
Karin L. Williams	(Reg. No. 36721)
Barry H. Freedman	(Reg. No. 26166)
Alfred G. Steinmetz	(Reg. No. 22971)
Stephen M. Gurey	(Reg. No. 27336)
Jeffrey M. Weinick	(Reg. No. 36304)

Please address all correspondence to Mr. S. H. Dworetsky, AT&T Corp., P. O. Box 4110, Middletown, New Jersey 07748. Telephone calls should be made to Alfred G. Steinmetz by dialing 973-386-2718.

Full name of 1st joint inventor: Irwin Gerszberg

Inventor's signature

Date

3/24/98

Residence: Kendall Park, Middlesex County, New Jersey

Citizenship: United States of America

Post Office Address:

12 Dickinson Road
Kendall Park, New Jersey 08824

Full name of 2nd joint inventor: Robert Raymond Miller II

Inventor's signature

Date

3/19/98

Residence: Township of Morris, Morris County, New Jersey

Citizenship: United States of America

Post Office Address:

12 Bradley Road
Convent Station, New Jersey 07960

I. Gerszberg 41-37-3-35-13

Full name of 3rd joint inventor: Dennis Matthew Romain

Inventor's signature Dennis Matthew Romain Date 3/24/98

Residence: Convent Station, Morris County, New Jersey

Citizenship: United States of America

Post Office Address: 1 Ellyn Ct
Convent Station, New Jersey 07961

Full name of 4th joint inventor: Jesse Eugene Russell

Inventor's signature Jesse Eugene Russell Date 3/24/98

Residence: Piscataway, Middlesex County, New Jersey

Citizenship: United States of America

Post Office Address: 2 Tharnes Ave
Piscataway, New Jersey 08854

Full name of 5th joint inventor: Philip Andrew Treventi

Inventor's signature Philip A. Treventi Date 3/24/98

Residence: Murray Hill, Union County, New Jersey

Citizenship: United States of America

Post Office Address: 15 Candlewood Drive
Murray Hill, New Jersey 07974

I. Gerszberg 41-37-3-35-13

ASSIGNMENT AND AGREEMENT

For value received, we, Irwin Gerszberg, of Kendall Park in the County of Middlesex and State of New Jersey, Robert Raymond Miller II, of Township of Morris in the County of Morris and State of New Jersey, Dennis Matthew Romain, of Convent Station in the County of Morris and State of New Jersey, Jesse Eugene Russell, of Piscataway in the County of Middlesex and State of New Jersey, and Philip Andrew Treventi, of Murray Hill in the County of Union and State of New Jersey, hereby sell, assign and transfer to AT&T Corp., a corporation of the State of New York, having an office at 32 Avenue of the Americas, New York, New York 10013-2412, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **Hybrid Fiber Twisted Pair Local Loop Network Service Architecture** described in an application for Letters Patent of the United States, Serial No. 09/001360, filed December 31, 1997, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to AT&T Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize AT&T Corp. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of AT&T Corp. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to AT&T Corp. in the United States and in all countries foreign to the United States, or to such nominees as AT&T Corp. may designate.

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I. Gerszberg 41-37-3-35-13

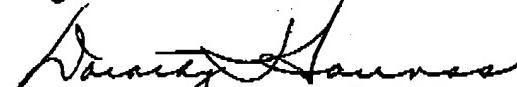
We agree that, when requested, we shall, without charge to AT&T Corp. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.


Irwin Gerszberg

Date: 3/24/98

United States of America)
State of New Jersey) ss.:
County of Morris)

On this 24th day of March, 1998, before me personally came Irwin Gerszberg, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

DOROTHY HAUNSS
A Notary Public of New Jersey
My Commission Expires 4/16/98

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I. Gerszberg 41-37-3-35-13

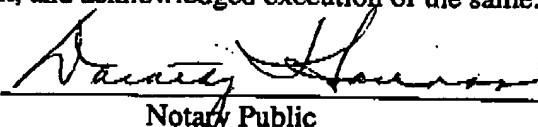


Robert Raymond Miller II

Date: 3/19/98

United States of America)
State of New Jersey) ss.:
County of Morris)

On this 19th day of March, 19 98, before me personally came Robert Raymond Miller II, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

DOROTHY HAUNSS
A Notary Public of New Jersey
My Commission Expires 4/16/98

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I. Gerszberg 41-37-3-35-13

Dennis Matthew Romain
Dennis Matthew Romain

Date: 3/24/98

United States of America)

State of New Jersey) ss.:

County of Bergen)

On this 24th day of March, 1998, before me personally came Dennis Matthew Romain, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Dorothy Haunss
Notary Public

DOROTHY HAUNSS
A Notary Public of New Jersey
Commission Expires 4/16/98

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I. Gerszberg 41-37-3-35-13

Jesse Eugene Russell
Jesse Eugene Russell

Date: March 24, 1998

United States of America)
State of New Jersey) ss.:
County of Mercer)

On this 24th day of March, 1998, before me personally came Jesse Eugene Russell, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Dorothy Haunss)
Notary Public

DOROTHY HAUNSS
A Notary Public of New Jersey
My Commission Expires 4/16/98

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I. Gerszberg 41-37-3-35-13

Philip Andrew Treventi
Philip Andrew Treventi

Date: 3/24/98

United States of America)
State of New Jersey) ss.:
County of Morris)

On this 24th day of March, 1998, before me personally came Philip Andrew Treventi, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Dorothy Haunss
Notary Public
DOROTHY HAUNSS
A Notary Public of New Jersey

AT&T Corp.
P. O. Box 4110
Middletown, New Jersey 07748

FROM AT&T LAW DEPT.

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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
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JULY 11, 1998

PTAS

AT&T CORP.
S. H. DWORETSKY, GENERAL ATTORNEY
P.O. BOX 4110
MIDDLETOWN, NJ 07748



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UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 04/29/1998

REEL/FRAME: 9160/0783
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GERSZBERG, IRWIN

DOC DATE: 03/24/1998

ASSIGNOR:

MILLER, ROBERT RAYMOND, II

DOC DATE: 03/19/1998

ASSIGNOR:

ROMAIN, DENNIS MATTHEW

DOC DATE: 03/24/1998

ASSIGNOR:

RUSSELL, JESSE EUGENE

DOC DATE: 03/24/1998

ASSIGNOR:

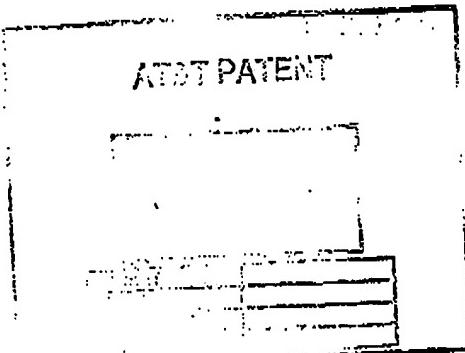
TREVENTI, PHILIP ANDREW

DOC DATE: 03/24/1998

ASSIGNEE:

AT&T CORP.
32 AVENUE OF THE AMERICAS
NEW YORK, NEW YORK 10013-2412

AT&T PATENT



FROM AT&T LAW DEPT.

(THU) 12 6' 01 15 ST. 15:38/N0. 4862567714 P 3

9160/0783 PAGE 2

SERIAL NUMBER: 09001360
PATENT NUMBER:

FILING DATE: 12/31/1997
ISSUE DATE:

SHIRLIE SIMON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

FROM AT&T LAW DEPT.

Form PTO-1500

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GPO No. 0251-001-00000-0000

5-22-98

Tab setting page 10

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05-18-1998

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents

100713344

Send original documents or copy thereof.

1. Name of conveying party(ies):
 1= Irwin Gerszberg
 2= Robert Raymond Miller II
 3= Dennis Matthew Romain
 4= Jesse Eugene Russell 5= Philip Andrew Treventi
 Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: AT&T Corp.

Internal Address: 4 1998

Street Address: 32 Avenue of the Americas

City: New York State: NY ZIP: 10010

3. Nature of conveyance:

 Assignment Merger Security Agreement Change of Name Other _____1,3,4,5= March 24, 1998; 2= March 19, 1998
Execution Date: _____I hereby certify that this correspondence is being
transmitted with the United States Postal Service infirst class mail in an envelope addressed to the
Assistant Commissioner for Patents, Washington,
DC 20231, on 4/29/98

If this document is being filed together with a new application, the execution date of the application is: _____

4. Application number(s) or patent number(s):

A. Patent Application No.(s)
Serial 09/001360 filed December 31, 1997

B. Patent Number

April 29, 1998

Date of Signature

Additional numbers attached? Yes No5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: S. H. Dworetzky, General Attorney

Internal Address: AT&T CORP.

Street Address: P.O. Box 4110

Middletown, New Jersey

City: Middletown State: NJ ZIP: 07748

6. Total number of applications and patents involved: one

7. Total fee (37 CFR 3.41) \$ 40.00

 Enclosed

XIX Authorized to be charged to deposit account

8. Deposit account number:

01-2745

(Attach additional copy of this page if paying by deposit account)

05-18-1998 150000Z 00000000 012745 09001360

Ref: 00000000 Date: 01/27/98

GPO 2012 40.00 CTT

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of
the original document.

A. G. STEINMETZ

Name of Person Signing

Total number of pages including cover sheet, attachments, and comment: 7

Signature

Date

Gerszberg 41-37-3*
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Washington, D.C. 20231